

#11/4B
PATENT
PATENT
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10-26-00
OCT 26 2000

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s) Van Ommen, et al.

Examiner: C. Wilder

Serial No.: 09/445,174

Group Art Unit: 1655

TECH CENTER 1600/2900
RECEIVED

Filed: April 24, 2000

Docket: 294-78

OCT 30 2000

For: DIAGNOSTIC TEST KIT FOR
DETERMINING A
PREDISPOSITION FOR
BREAST AND OVARIAN
CANCER, MATERIALS AND
METHODS FOR SUCH
DETERMINATION

Dated: October 18, 2000

TECH CENTER 1600/2900

Assistant Commissioner for Patents
Washington, DC 20231

I hereby certify this correspondence is being deposited
with the United States Postal Service as first class mail,
postpaid in an envelope, addressed to:
Assistant Commissioner for Patents, Washington, D.C.

20231 on October 18, 2000

Dated: 10/18/00

Julie S. Watts

**RESPONSE TO NOTICE TO COMPLY WITH REQUIREMENTS
FOR PATENT APPLICATION CONTAINING NUCLEOTIDE
SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES**

Sir:

In response to the Notice to Comply with Requirements for Patent Applications
Containing Nucleotide Sequence and/or Amino Acid Sequence Disclosures mailed
September 8, 2000, Applicants enclose herewith the following:

1. Diskette containing a substitute Sequence Listing in computer-readable form,
corrected as directed in the Notice;
2. A substitute paper copy of the "Sequence Listing"; and

3. A copy of the Notice to Comply.

REMARKS

Applicants have amended the Sequence Listing to conform with the above-referenced Notice to Comply. Entry of the amended Sequence Listing into the specification of the application is respectfully requested.

The Notice to Comply dated September 8, 2000 indicates that the due date for a response to the Notice is the one-month shortened statutory period. This Response is filed within the second month after the September 8, 2000 communication. Accordingly, a Petition for a One Month Extension of Time and the appropriate fee are filed concurrently herewith.

The assignee is a small entity. Therefore, the reduced extension of time fee is being paid. A Declaration Claiming Small Entity is enclosed.

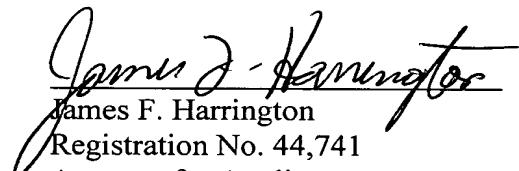
In compliance with the sequence rules as required under 37 C.F.R. §§1.821-1.825, Applicants have amended SEQ. ID NO.: 21 to delete reference to "n". The presence of "n" in the sequence listing was an error. Applicants provide herewith a computer readable form and a paper copy of the corrected Sequence Listing thereby satisfying the requirement under 37 C.F.R. §§1.821 *et seq.*

Under 37 C.F.R. 1.821(f), the Applicants' attorney hereby states that the contents of the computer readable form and the paper copy are the same. Under 37 C.F.R. §1.821(g), the

Applicants' attorney also states that the inclusion of this Sequence Listing does not include any new matter. Accordingly, it is respectfully requested that the Sequence Listing be entered into the application.

If the Examiner has any questions relating to this Amendment or to this application in general, it is respectfully requested that the Examiner contact the Applicants' undersigned attorney at the telephone number provided below.

Respectfully submitted,



James F. Harrington
Registration No. 44,741
Attorney for Applicants

HOFMANN & BARON, LLP
6900 Jericho Turnpike
Syosset, New York 11791
(516) 822-3550
JFH:jlw

121195_1.DOC



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

SERIAL NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NO.

EXR.	
Debra Shoemaker	
ART UNIT	PAPER NUMBER

J DATE MAILED:

Please find below a communication from the EXR. in charge of this application

Commissioner of Patents

1. The communication filed 7/13/2000 is not fully responsive to the Office communication mailed 6/13/2000 for the reason(s) set forth on the attached Notice To Comply With The Sequence Rules or CRF Diskette Problem Report. Applicant must comply with the requirements of the sequence rules (37 CFR 1.821 - 1.825) before the application can be examined under 35 U.S.C. §§ 131 and 132.

Since the above-mentioned reply appears to be *bona fide* attempt to comply with the requirements of the sequence rules (37 CFR 1.821 - 1.825), applicant is given a TIME PERIOD of **ONE (1) MONTH** from the mailing date of this communication within which to correct the deficiency so as to comply with the sequence rules (37 CFR 1.821 - 1.825) in order to avoid abandonment of the application under 37 CFR 1.821(g). EXTENSIONS OF THIS TIME PERIOD MAY BE GRANTED UNDER 37 CFR 1.136(a).

2. Any inquiry concerning this communication or earlier communications from the Exr. Should be directed to Cynthia Wilder whose telephone number is (703) 305-1680. The Exr. Can normally be reached on Monday-Thursday from 6:30-5:00 pm (Eastern Time).

If attempts to reach the Exr. by telephone are unsuccessful, the Exr.'s supervisor Gary Jones, can be reached at (703) 308-1152. The official fax number for group 1600 is (703) 308-4242, unofficial fax number for group 1600 is (703) 308-8724.

Any inquiry of a general nature or relating to the status of the application should be directed to the groups receptionist whose telephone number is (703) 308-0196.

Cynthia Wilder

Cynthia B. Wilder, PhD
September 5, 2000

S. Foster
*University of Michigan
Dept. of Ecology & Evolutionary Biology*

Application No.: 09/445,174

**NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING
NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES**

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s)

1. This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to these regulations, published at 1114 OG 29, May 15, 1990 and at 55 FR 18230, May 1, 1990.

2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).

3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).

4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing."

5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).

6. The paper copy of the "Sequence Listing" is not the same as the computer readable form of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).

7. Other: _____

Applicant Must Provide:

An initial or substitute computer readable form (CRF) copy of the "Sequence Listing".

An initial or substitute paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification.

A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).

For questions regarding compliance to these requirements, please contact:

For Rules Interpretation, call (703) 308-4216

For CRF Submission Help, call (703) 308-4212

For PatentIn software help, call (703) 308-6856

PLEASE RETURN A COPY OF THIS NOTICE WITH YOUR RESPONSE

**RAW SEQUENCE LISTING
ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number

09/445,177

REC

Source

1655

AS

Date Processed by STIC

7-26-03

TECH CENTER 2900

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR FURTHER INFORMATION, PLEASE TELEPHONE MARK SPENCER,
703-308-4212

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW.

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR § 1.821 – 1.825 effective October 14, 1990 (old rules) and the revised version (new rules) effective July 1, 1993 as well as World Intellectual Property Organization (WIPO) Standard ST325.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable Form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be downloaded from the USPTO website at the following address:
<http://www.uspto.gov/web/offices/pac/checker>

Raw Sequence Listing Error Summary

ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER: 09/445, 174

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1	____ Wrapped Nucleic	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3, as this will prevent "wrapping".	RECEIVED AUG 16 2000 TECH CENTER 1600/2900
2	____ Wrapped Aminos	The amino acid number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3, as this will prevent "wrapping".	
3	____ Incorrect Line Length	The rules require that a line not exceed 72 characters in length. This includes spaces.	
4	____ Misaligned Amino Acid Numbering	The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs between the numbering. It is recommended to delete any tabs and use spacing between the numbers.	
5	____ Non-ASCII	This file was not saved in ASCII (DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text so that it can be processed.	
6	____ Variable Length	Sequence(s) ____ contain n's or Xaa's which represented more than one residue. As per the rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the (ix) feature section that some may be missing.	
7	____ PatentIn ver. 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequence(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies primarily to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
8	____ Skipped Sequences (OLD RULES)	Sequence(s) ____ missing. If intentional, please use the following format for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (i) SEQUENCE CHARACTERISTICS:(Do not Insert any headings under "SEQUENCE CHARACTERISTICS") (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: This sequence is intentionally skipped Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).	
9	____ Skipped Sequences (NEW RULES)	Sequence(s) ____ missing. If intentional, please use the following format for each skipped sequence. <210> sequence id number <400> sequence id number 000	
10	✓ Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Use of <220> to <223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.	
11	____ Use of <213>Organism (NEW RULES)	Sequence(s) ____ are missing this mandatory field or its response.	
12	____ Use of <220>Feature (NEW RULES)	Sequence(s) ____ are missing the <220>Feature and associated headings. Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown" Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)	
13	____ PatentIn ver. 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other means to copy file to floppy disk.	

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/445,174

DATE: 07/26/2000
TIME: 10:17:06

Input Set : A:\115541_1.txt
Output Set: N:\CRF3\07262000\I445174.raw

Does Not Comply
Corrected Diskette Needed

```

1 <110> APPLICANT: van Ommen, Garrit J.B.
2     Petrij-Bosch, Anne
3     Bakker, Egbert
4     Devilee, Peter
7 <120> TITLE OF INVENTION: A diagnostic test kit for determining a predisposition
8     for breast and ovarian cancer, materials and methods
9     for such determination
11 <130> FILE REFERENCE: P22163CA00
13 <140> CURRENT APPLICATION NUMBER: US 09/445,174
14 <141> CURRENT FILING DATE: 2000-04-24
16 <150> PRIOR APPLICATION NUMBER: PCT/NL98/00325
17 <151> PRIOR FILING DATE: 1998-06-03
19 <150> PRIOR APPLICATION NUMBER: EP 97201700.8
20 <151> PRIOR FILING DATE: 1997-06-04
22 <160> NUMBER OF SEQ ID NOS: 23
24 <170> SOFTWARE: PatentIn Ver. 2.1
26 <210> SEQ ID NO: 1
27 <211> LENGTH: 20
28 <212> TYPE: DNA
29 <213> ORGANISM: Artificial Sequence
31 <220> FEATURE:
32 <223> OTHER INFORMATION: Description of Artificial Sequence: primer forward
33     for D17S1322
35 <400> SEQUENCE: 1
36 ctggcctggg caacaaacga
39 <210> SEQ ID NO: 2
40 <211> LENGTH: 20
41 <212> TYPE: DNA
42 <213> ORGANISM: Artificial Sequence
44 <220> FEATURE:
45 <223> OTHER INFORMATION: Description of Artificial Sequence: primer reverse
46     for D17S1322
48 <400> SEQUENCE: 2
49 gcaggaagca ggaatggAAC
52 <210> SEQ ID NO: 3
53 <211> LENGTH: 21
54 <212> TYPE: DNA
55 <213> ORGANISM: Artificial Sequence
57 <220> FEATURE:
58 <223> OTHER INFORMATION: Description of Artificial Sequence: primer forward
59     for D17S855
61 <400> SEQUENCE: 3
62 ggatggcctt ttagaaaagtg g
65 <210> SEQ ID NO: 4
66 <211> LENGTH: 20
67 <212> TYPE: DNA
68 <213> ORGANISM: Artificial Sequence

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20

20

21

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/445,174

DATE: 07/26/2000
TIME: 10:17:06

Input Set : A:\115541_1.txt
Output Set: N:\CRF3\07262000\I445174.raw

70 <220> FEATURE:
71 <223> OTHER INFORMATION: Description of Artificial Sequence: primer reverse
72 for D17S855
74 <400> SEQUENCE: 4
75 acacagactt gtcctactgc 20
78 <210> SEQ ID NO: 5
79 <211> LENGTH: 20
80 <212> TYPE: DNA
81 <213> ORGANISM: Artificial Sequence
83 <220> FEATURE:
84 <223> OTHER INFORMATION: Description of Artificial Sequence: primer forward
85 for D17S1323
87 <400> SEQUENCE: 5
88 taggagatgg attattggtg 20
91 <210> SEQ ID NO: 6
92 <211> LENGTH: 20
93 <212> TYPE: DNA
94 <213> ORGANISM: Artificial Sequence
96 <220> FEATURE:
97 <223> OTHER INFORMATION: Description of Artificial Sequence: primer reverse
98 for D17S1323
100 <400> SEQUENCE: 6
101 aagcaacttt gcaatgagt 20
104 <210> SEQ ID NO: 7
105 <211> LENGTH: 22,
106 <212> TYPE: DNA
107 <213> ORGANISM: Artificial Sequence
109 <220> FEATURE:
110 <223> OTHER INFORMATION: Description of Artificial Sequence: primer forward
111 for first PCR
113 <400> SEQUENCE: 7
114 tcacagtgcgtgaattggaa ag 22
117 <210> SEQ ID NO: 8
118 <211> LENGTH: 24
119 <212> TYPE: DNA
120 <213> ORGANISM: Artificial Sequence
122 <220> FEATURE:
123 <223> OTHER INFORMATION: Description of Artificial Sequence: primer reverse
124 for first PCR
126 <400> SEQUENCE: 8
127 gttagccaggc cagtagaaagg actg 24
130 <210> SEQ ID NO: 9
131 <211> LENGTH: 22
132 <212> TYPE: DNA
133 <213> ORGANISM: Artificial Sequence
135 <220> FEATURE:
136 <223> OTHER INFORMATION: Description of Artificial Sequence: primer forward
137 for second PCR
139 <400> SEQUENCE: 9

RAW SEQUENCE LISTING DATE: 07/26/2000
PATENT APPLICATION: US/09/445,174 TIME: 10:17:06

Input Set : A:\115541_1.txt
Output Set: N:\CRF3\07262000\I445174.raw

140 gaagaaaagag gaacgggctt gg 22
143 <210> SEQ ID NO: 10
144 <211> LENGTH: 21
145 <212> TYPE: DNA
146 <213> ORGANISM: Artificial Sequence
148 <220> FEATURE:
149 <223> OTHER INFORMATION: Description of Artificial Sequence: primer reverse
150 for second PCR
152 <400> SEQUENCE: 10
153 ggcactttg taagtcatt c 21
156 <210> SEQ ID NO: 11
157 <211> LENGTH: 19
158 <212> TYPE: DNA
159 <213> ORGANISM: Artificial Sequence
161 <220> FEATURE:
162 <223> OTHER INFORMATION: Description of Artificial Sequence: primer forward
164 <400> SEQUENCE: 11
165 aaccaccaag gtccaaagc 19
168 <210> SEQ ID NO: 12
169 <211> LENGTH: 24
170 <212> TYPE: DNA
171 <213> ORGANISM: Artificial Sequence
173 <220> FEATURE:
174 <223> OTHER INFORMATION: Description of Artificial Sequence: primer reverse
176 <400> SEQUENCE: 12
177 gtagccagga cagtagaagg actg 24
180 <210> SEQ ID NO: 13
181 <211> LENGTH: 20
182 <212> TYPE: DNA
183 <213> ORGANISM: Artificial Sequence
185 <220> FEATURE:
186 <223> OTHER INFORMATION: Description of Artificial Sequence: primer reverse
188 <400> SEQUENCE: 13
189 tacgtgggtt caactgaagc 20
192 <210> SEQ ID NO: 14
193 <211> LENGTH: 20
194 <212> TYPE: DNA
195 <213> ORGANISM: Artificial Sequence
197 <220> FEATURE:
198 <223> OTHER INFORMATION: Description of Artificial Sequence: primer forward
200 <400> SEQUENCE: 14
201 tcccattttag aggttttgt 20
204 <210> SEQ ID NO: 15
205 <211> LENGTH: 20
206 <212> TYPE: DNA
207 <213> ORGANISM: Artificial Sequence
209 <220> FEATURE:
210 <223> OTHER INFORMATION: Description of Artificial Sequence: primer reverse
212 <400> SEQUENCE: 15

RAW SEQUENCE LISTING DATE: 07/26/2000
 PATENT APPLICATION: US/09/445,174 TIME: 10:17:06

Input Set : A:\115541_1.txt
 Output Set: N:\CRF3\07262000\I445174.raw

```

213 actgtgctac tcaagcacca          20
216 <210> SEQ ID NO: 16
217 <211> LENGTH: 24
218 <212> TYPE: DNA
219 <213> ORGANISM: Artificial Sequence
221 <220> FEATURE:
222 <223> OTHER INFORMATION: Description of Artificial Sequence: primer forward
224 <400> SEQUENCE: 16
225 gaaaaaaaaaag tacaacccaa tgcc          24
228 <210> SEQ ID NO: 17
229 <211> LENGTH: 24
230 <212> TYPE: DNA
231 <213> ORGANISM: Artificial Sequence
233 <220> FEATURE:
234 <223> OTHER INFORMATION: Description of Artificial Sequence: primer reverse
236 <400> SEQUENCE: 17
237 agccccacttc atttagtactg gaac          24
240 <210> SEQ ID NO: 18
241 <211> LENGTH: 24
242 <212> TYPE: DNA
243 <213> ORGANISM: Artificial Sequence
245 <220> FEATURE:
246 <223> OTHER INFORMATION: Description of Artificial Sequence: primer forward
248 <400> SEQUENCE: 18
249 taccctataa gccagaatcc agaa          24
252 <210> SEQ ID NO: 19
253 <211> LENGTH: 21
254 <212> TYPE: DNA
255 <213> ORGANISM: Artificial Sequence
257 <220> FEATURE:
258 <223> OTHER INFORMATION: Description of Artificial Sequence: primer reverse
260 <400> SEQUENCE: 19
261 ggccactttg taagctcatt c          21
264 <210> SEQ ID NO: 20
265 <211> LENGTH: 720
266 <212> TYPE: DNA
267 <213> ORGANISM: Homo sapiens
269 <220> FEATURE:
270 <223> OTHER INFORMATION: /note="Exon 22 of BRCA1 and its flanking intron
271 sequences, pos. 79441-80160"
273 <400> SEQUENCE: 20
274 agaggcttgc ctataaggct tcatccggag agtgttaggtt agagggcctg ggttaagtat 60
275 gcagattact gcagtgattt tacatctaaa tgcattttt agatcaactg gaatggatgg 120
276 tacagctgtg tggtgcttct gtggtaagg agcttcatc attcaccctt ggcacagtaa 180
277 gtattgggtg ccctgtcaga gagggaggac acaatattct ctctgtgag caagactggc 240
278 acctgtcagt ccctatggat gcccctactg tagcctcaga agtcttctct gcccacatac 300
279 ctgtgccaaa agactccatc tgtaaggat gggtaaggat ttgagaactg cacatattaa 360
280 atataactgag ggaagacttt ttccctctaa ctcttttcc cataatgtccc tccccctct 420
281 ctctgtgact gccccagcat actgtgttcc aacaatcat caagaaatga tgggctggag 480

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 AUG 16 2000
 TECH CENTER 1600/2999

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/445,174

DATE: 07/26/2000
TIME: 10:17:06

Input Set : A:\115541_1.txt
Output Set: N:\CRF3\07262000\I445174.raw

282 gctggccatg gtggctcatg tctgtatcc cagcacttg ggaggccgag gcaggtggat 540
283 cacttgtacg gagtttggaa ccagcctgg caacatggta aaaccggatc tgtaataaaa 600
284 aaaaaaaaaac aaaaagttagc caggcctgg ggagcatgc tgtaatgcca gctatttggg 660
285 aagttgaggt gtgagcatcg cttgaacgtg ggaggcagag gttgcgtga gccaagattg 720
288 <210> SEQ ID NO: 21
289 <211> LENGTH: 180
290 <212> TYPE: DNA /
291 <213> ORGANISM: Homo sapiens
293 <220> FEATURE:
294 <223> OTHER INFORMATION: /note="Intronic region flanking exon 12, pos.
295 44423 - 44600"
297 <400> SEQUENCE: 21
W--> 298 cctgttaatcc cagcacttg ggaggccgag gcggggaggat catgtggat caggagatcc 60
299 agaccatct ggctaacaacg gtgaaacacc atttctacta aaactacaaa aaatttagctg 120
300 ggcgttgg cgggcgcctg taatcccagc tactcaggag gctgaagcag aagaatggct 180
303 <210> SEQ ID NO: 22
304 <211> LENGTH: 180
305 <212> TYPE: DNA /
306 <213> ORGANISM: Homo sapiens
308 <220> FEATURE:
309 <223> OTHER INFORMATION: /note="Intronic region flanking exon 13, pos.
310 48256 - 48436"
312 <400> SEQUENCE: 22
313 cctgttaaccc cagcacttg ggaggccaaag gcaggcaat cacctgggt cgggagctcg 60
314 agaccatct ggccaacatg gagaaccac atttctacta aaactacaaa aaatttagccg 120
315 ggcgttgg cacaatgcctg taatcccagc tacttggggat ctacgggcc tggcttagtt 180
318 <210> SEQ ID NO: 23
319 <211> LENGTH: 60
320 <212> TYPE: DNA /
321 <213> ORGANISM: Homo sapiens
323 <220> FEATURE:
324 <223> OTHER INFORMATION: /note="Deletion-function fragment"
326 <400> SEQUENCE: 23
327 agaccatct ggctaacaacg gtgaaacacc atttctacta aaactacaaa aaatttagccg 60

features missing
Mandatory <222> <223> of
<221> location
Explain residues
n's and represent.
they # 10 on
See Summary
Error Sheet.

RECEIVED
AUG 16 2000
TECH CENTER 1600/2800

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/445,174

DATE: 07/26/2000
TIME: 10:17:07

Input Set : A:\115541_1.txt
Output Set: N:\CRF3\07262000\I445174.raw

L:298 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:21
L:298 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:21
L:298 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:21

RECEIVED

AUG 16 2000

TECH CENTER 1600/2900